National Priorities List Site

Hazardous waste site listed under the Compensation, and Liability Act of 1980 (CERCLAX("Superfund")

DAYCO CORP./L.E. CARPENTER CO. Wharton Borough, New Jersey

Dayco Corp./L.E. Carpenter Co. manufactures vinyl-coated wall coverings on a site of about 2 acres in Wharton Borough, Morris County, New Jersey. Prior to 1970, the company disposed of polyvinyl chloride sludge by burying it in drums. In January 1982, Dayco Corp./L.E. Carpenter Co. and the State entered into an Administrative Consent Order requiring the company to remove the sludge, study ground water contamination, and decontaminate ground water. Later in the year, the company removed approximately 4,000 cubic yards of sludge and soil in the rear of the property. In 1983, a private engineering firm hired by the company studied ground water and prepared a proposal to decontaminate it. The firm estimated that approximately 20,000 gallons of recoverable solvents are floating on the ground water beneath the site. Additional investigations are underway.

The facility is located in the floodplain of the Rockaway River, a recharge area for the unconsolidated Quaternary Aquifer, which is designated a sole source of drinking water for the Rockaway River Basin area. Dover Township wells and Wharton Borough wells serving 27,000 people are within 3 miles of the plant.

DOCKET COPY

FEB 0 6 1985

Facility name: Dayco Corporation / L.E. Capenter
LOCATION: Wharton Berough Mouris County n
EPA Region:
Person(s) in charge of the facility:
Name of Reviewer:
General description of the facility:
(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the
facility; contamination route of major concern; types of information needed for rating; agency action, etc.)
Days Corporation L.E. Carpenter Company
gerates a wall covering many actioning paciety
in the borough of harton, Morris County, Men Jersey
The facility solseated in the food place of the lockney
Diver . Prior to 1970, solid and liquid reporter were
assposed in a supreyace implement in Ahin so
feet y the Rocksway Revol. L. E. Conjunter reported to the
Scores: S _M 48.12 (S _{GW} =82.89 S _{SW} =7.72 S _B = 0)
S _{PE} =
Soc =

FIGURE 1 HRS COVER SHEET

NTDEP What it reproved 3500 cubid yards y sludge and soil from the impoundment. However, the groundwater is contaminated with reglene and ethylbenzene. An engineering firm kined by the company stated that approprimately 20,000 gallons grecoverable solvent is floating on the groundwater.

See Russell ganuary 25, 1985

•		· · ·	Ground	i Wat	er Ro	ute Wor	k Sheel	:			
Rating Factor Assigned V. (Circle On								Muiti- plier	Score	Max. Score	Ref. (Section)
0	Observed Release		0			45)		1	45	45	3.1
	If observed release	•									
2	Route Characterist Depth to Aquifer		jo '	1 2	3			2		6	3.2
	Concern Net Precipitation Permeability of the		0	1 2	3			1		3	
	Unsaturated Zor Physical State	ne	0	1 2	3		<u>.</u>	1	,	3	
	·	T	otal Rou	te Ch	aracte	ristics	Score			15	
3	Containment		0	1 2	3	•		1	:	3	3.3
4	Waste Characterist Toxicity/Persiste Hazardous Waste Quantity	ence	0		9 1 3	2 15 18 4 5 6)) 7 8	1	18	18 8	3.4
							محدود مح		_	_ <u></u>	
		T	otal Was	te Ch	aract	eristics	Score		24	26	
3	Targets Ground Water Use Distance to Near Well/Population Served	rest	0 12 24	1 4 16 30	2 6 23	10		3.	9 35	9 40	3.5
			٠.				•				4.*
F V MAY .	www.mar.com		To	ai Ta	rgeta	Score			44	49	
ह		multiply [1		x [4	_	5			47 520	57,330	
7	Divide line 6 by	y 57,330 an	d multip	ly by	100				82.	89	

FIGURE 2
GROUND WATER ROUTE WORK SHEET

			Surface Water Route	Work Sheet				
	Rating Factor		Assigned Value (Circle One)		lulti- lier	Score	Max. Score	Ref. (Section
1	Observed Release	9	6 45	- tur - A	1	0	45	4.1
		** .	value of 45, proceed to value of 0, proceed to			· .		
2	Route Characteris		g 0 (1) 2 3		1	1	3	4.2
	Terrain 1-yr. 24-hr. Rain Distance to Nea Water		0 1 2 3		1 2	2	3 6	
	Physical State		0 1 2 (3)	1	1.,	3	3	
		То	tal Route Characteristi	cs Score		12	15	,
3	Containment	· · · · · · · · · · · · · · · · · · ·	0 1 2 (3)		1	3	3	4.3
4	Waste Characteris Toxicity/Persiste Hazardous Wast Quantity	ence	0 3 6 9 12 15 0 1 2 3 4 (5	18 7 8	1	18	18 8	4.4
		То	tal Waste Characteristi	cs Score		23	26	
5	Targets Surface Water U Distance to a Se Environment				3 2	60	9	4.5
	Population Serve to Water Intake Downstream	ed/Distance	\(\begin{array}{cccccccccccccccccccccccccccccccccccc	10 40	1	0	40	
			Total Targets Scor	9		6	55	
		multiply 1 nultiply 2	x 4 x 5 x 3 x 4 x 5			4968	64,350	
7]	Divide line 6 by	. 64 050	multiple by 400			7.7		-

FIGURE 7
SURFACE WATER ROUTE WORK SHEET

	The state of the comments		Air	Route Worl	Sheet		- -		•
	Rating Factor			igned Value ircle One)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Release) ,	G	49	.	1	0	45	5.1
	Date and Location	•		,					
	Sampling Protocol	•			· - <u></u>				
			0. Enter on I						
2	Waste Characterist Reactivity and Incompatibility	tics	0 1	2 3		1		ŝ	5.2
	Toxicity Hazardous Waste Quantity) 	0 1	2 3 2 3 4	5 6 7 8	3		9	
				• 2		. 1. 1			
			Total Waste	Characteris	tics Score			20	
3	Targets Population Within 4-Mile Radius Distance to Sensi Environment		J 21 24	12 15 18 27 30 2 3	#. 2	1 2		30 6	5.3
	Land Use		0 1	2 3		1		3	•
				•					
			Total	Targets Sc	ore			39	·
4	Multiply 1 x 2	× 3	•					35,100	
5	Divide line 4 by	/ 35,100 a	and multiply	by 100		Sa-	0		

FIGURE 9
AIR ROUTE WORK SHEET Sur Russell

January 25,1985

	S	s ²
Groundwater Route Score (Sgw)	82.89	6870.75
Surfaçe Water Route Score (S _{SW})	7.72	59.60
Air Route Score (Sa)		
$s_{gw}^2 + s_{sw}^2 + s_a^2$		6930.35
$\sqrt{s_{qw}^2 + s_{sw}^2 + s_a^2}$		83.25
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 - s_M -$		48.12

FIGURE 10 WORKSHEET FOR COMPUTING S_M

	Rating Factor				gne rcie		e) e)				Multi- plier	Score	Max. Score	Ref. (Section
1	Containment	:	. 1				. 3				1		3	7.1
2]	Waste Characteristics Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity		0 0	-	_	3 3 3 3	4	5 6	7	8.	1 1 1		3 3 3 3 8	7.2
			,											
		Tota	i Wa	ste	Cha	ract	eris	ics :	Score)			20	
3	Targets Distance to Nearest Population Distance to Nearest Building Distance to Sensitive Environment Land Use Population Within 2-Mile Radius Buildings Within 2-Mile Radius		0 0 0 0 0	1 1 1 1 1	2 2 2 2 2	3 3 3 3 3 3	4 !				1 1 1 1 1	•	5 3 3 5 5	7.3
			To	tai	Tarç	jets	Sco	re .		-			24	
4]	Multiply 1 x 2 x	3	,			,		,,,	,				1,440	

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

W. (W. d.).		Direct	Contact Wor	k Sheet				
	Rating Factor		igned Value ircle One)		Multi- plier	Score	Max. Score	Ref. (Section)
1	Observed Incident	0	45		1		45	8.1
	If line 1 is 45, proceed If line 1 is 0, proceed						· · · · · · · · · · · · · · · · · · ·	
2	Accessibility	0 1	2 3		1	2 (SEP AMB) (SE	3	8.2
গ্র	Containment	0	15		1		15	8.3
4	Waste Characteristics Toxicity	0 1	2 3	7,000 (_00070 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5		15	8.4
[5]	Targets Population Within a 1-Mile Radius Distance to a Critical Habitat	0 1	2 3 4 5		4		20 12	8.5
								• •
•		· · · · · · · · · · · · · · · · · · ·			T			·
<u>6</u>	If line 1 is 45, multiply If line 1 is 0, multiply	1 × 4 :	Targets Scor				32 21,600	
7	Divide line 6 by 21,600	and multiply	by 100	S	DC -		<u> </u>	

FIGURE 12 DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Weste quantity " 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Dayco Corp./L.E. Carpenter Company

LOCATION: 170 North Main Street, Wharton, Morris County, N. J. STREET, MUNICIPALITY, COUNTY, NJ

Site Description (for transcription to worksheet)

Dayco Corporation/L.E. Carpenter Company operates a wall covering manufacturing facility in the borough of Wharton. Morris.

County, New Jersey. The facility is located in the flood plain of the Rockaway River. Prior to 1970, solid and liquid wastes were disposed in a subsurface impoundment within 200 feet of the Rockaway River. L.E. Carpenter reported to the NJDFP that and soil it removed approximately 110,000 ft³ of sludge (4074 yds³)4 from the impoundment. However, the groundwater is contaminated with xylene and ethylbenzene along with other solvents. An engineering firm hired by the company stated that approximately 20,000 gallons of recoverable solvent is floating on the groundwater.

SRCUND WACER ROUTE

I CASERVED RELEASE

To chemicals were detected in water samples collected prom upgradient well #5. Downgradient wells #1, 2, 3, and 4 were contaminated with shylpenge and sylene.

Recionale for eccribucing the contaminants to the facility:

Sludge contained lead, butylbenzene, chloroform, toluene,
and sylene

Appendix A. Sludge analysis and Snownduster Analysis

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of equifors(s) of concern: Unconsolidated Quaternary Agenter Appendix Fand Appendix G

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/ storage:



Mean annual or seasonal precipitation (list months for seasonal):

(Ref: HRS Users Manual, Figure 5)
Mean annual lake or seasonal evaporation (list months for seasonal):

(Ref: HRS Users Manual, Pigure 4)

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated gone:

(Ref:____

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

(Ref:_____

3 CONTAINMENT

Containment

Mechod(s) of waste or leachage containment evaluated:

Method with highest score:

4 WASTE CEARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

lead bensene

chloworm toluene

Compound with highest score:

Chloryon

HRS manual Uncontrolled Hayandous Waste Site Ranking System, A User's Manual Hazardous Waste Quantity

appendix A

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if

Opproximately 29 000 rellows grecoverable solvent as fluation on the groundwater beneath encoved the site and 350 cm yes y studge. To percent y material removed the site and 350 cm yes y studge. Appendix C and B Basis of estimating and/or computing waste quanti

20,000 gallons: 50 gallons per drum = 400 drums 350 cu. yds. X 4 drums per eu. yd. = 140 o drums 2800 drums Sue Russell percent 25,1905

hwg = 6

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

. Sob- souce drinking water as designated by

EPA appendix & Federal Register

Distance to Nearest We

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Wharton Public wells # 1 and 2.

appendix & and U.S.G.S & Quad map

Distance to above well or building:

1 Sharton wells land 2 4000 feet US6S Quad map

Population Served by Ground Water Wells Within a 3-Mile Radius

Idencified water-supply well(s) drawing from aguifer(s) of concern within a 3-mile radius and populations served by each:

Wharton - 5500 Dover - 22,000

appendix D and memo from Bill geologist Computation of land area irrigated by supply well(s) drawing from NJDEP aquifer(s) of concern within a 3-mile radius, and conversion to populacion (1.5 people per acre):

NIA

Total population served by ground water within a 3-mile radius:

27, 500 = populations of whaton and Dover ..

SURFACE WATER ROUTE

i observed release

Concaminants decected in surface water at the facility or downhill from it (5 maximum):

Rationale for attributing the contaminants to the facility:

Z ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

slope varies from plat do over 6% averages & 3 to 5%

Reference - facility map and USGS Quad map Name/description of nearest downslope surface water:

Rockaway River

USGS Quad Map.

Average slope of terrain between facility and above-cited surface water body in percent:

Site which has slope averaging between 3 and 5h is ommedicately adjacent to Rockaway River

Le the facility map and US6S Quad map
Le the facility located either totally or partially in surface water?

During flood conditions, the river submerges

One site

Is the facility completely surrounded by areas of higher elevation?

U.S.G.S. map

1-Year 24-Hour Rainfall in Inches

2.7 inches

HRS Manual

Distance to Nearest Downslope Surface Water

75 feet

Sitemap

Physical State of Waste

Studge

3 CONTAINMENT

Concainment

Method(s) of waste or leachate containment evaluated:

Highly viscous sludge with potentially unsound impoundment with no prestound.

Observation by Steg Cunningham - NJDEP and Method with highest score: Appendix B -

Diking potentially unsolved, and scielence of sludge movement indicates that dike was breached in the past

Appendix and Observation by Greg Cunningham - NJDEP

WASTE CHARACTERISTICS

	-	•	
	 2000		
Toxicit	 		_ = :: = =

Compound(s) evaluated

bensene lead Chloroform toluene

appardir A-Sludge Analysis

Compound with highest score

Chloroform Pers=3

HRS Mancial

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of O (Give a reasonable estimate even if

350 cubic yards g sludge

(groundwater movement appears to be away from wiel. so solvent in wells not counted)

Basis of estimating and/or computing waste quantity:

3500 cu. yels. of material was removed from The impoundment area of which of to 90 percent to appeared to be soil.

Appendix B

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreational use of Rockausey River

Appendix E Russell January 25, 1985

Is there tidal influence?

No

USGS Map

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

MIA

Discance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

NIA

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

NIA

Total population served:

Name/description of pearest of above water bodies:

Rockanay River USGS Quad

Distance to above-cited intakes, measured in stream miles.

Sur Russell 985 January 25,1985

AIR ROUTE

	1 OBSERVED RELEASE
	Contaminants detected: NO AIR DATA
	4
•	
:	Date and location of detection of contaminants
	Methods used to detect the contaminents:
	Rationale for attributing the contaminants to the site:
· .	
	2 WASTE CHARACTERISTICS
	Reactivity and Incompatibility
	Host reactive compound:
	(Ref:
- - -	Most incompatible pair of compounds:
	(Ref: